


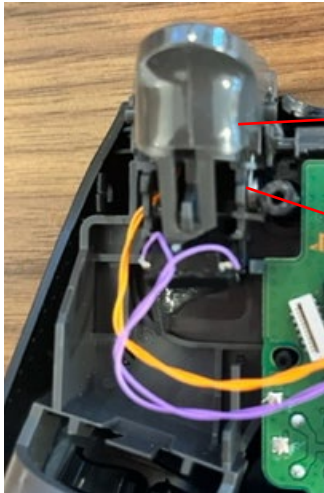



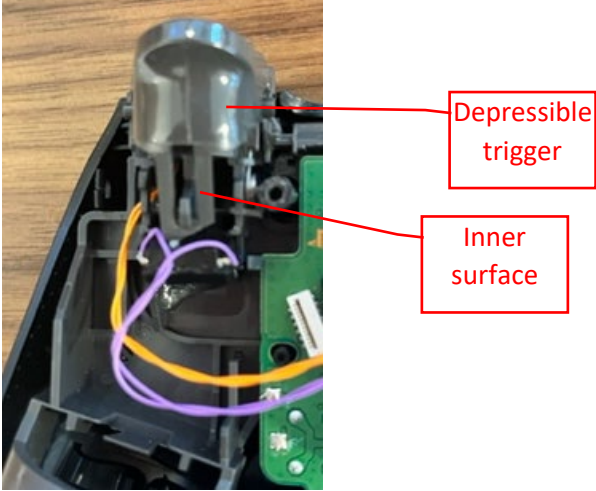
Exhibit J:

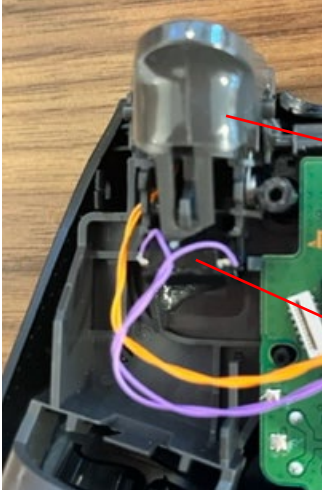
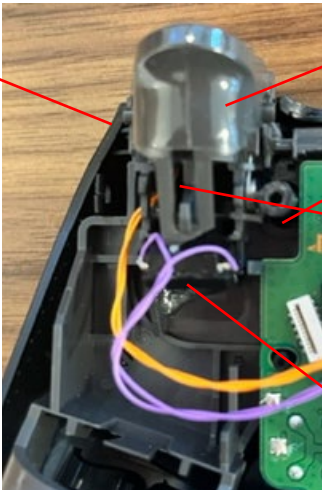
Exemplary Infringement of U.S.
Patent No. 10,596,455 by PS4
Controller with “Smart Trigger”

Claim 1 of US 10,596,455	
<p>An apparatus for providing a user input to a computer program for controlling the computer program, the apparatus comprising:</p>	<p>To the extent the preamble is limiting, the Battle Beaver products include this feature. The PS4 Controller is an apparatus that provides user input to a computer program for controlling the computer program.</p> <div>  <div>Apparatus</div> </div> <p>For example, the Smart Triggers provide an “input” for computer programs, such as “shooter games” including “Halo.” https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p> <div> <p>▼ What are Smart Triggers / Bumpers?</p> <p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p> <p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p> </div>

<p>An outer case;</p>	<p>The PS4 controller includes an outer case.</p>  <p>Outer case</p>
<p>At least one depressible trigger pivotally mounted to the apparatus and resiliently biased to a first position,</p>	<p>The controller includes at least one depressible trigger mounted to the apparatus, where the Trigger is resilient biased to a first position by a spring.</p>  <p>Depressible trigger</p> <p>Depressible trigger</p>

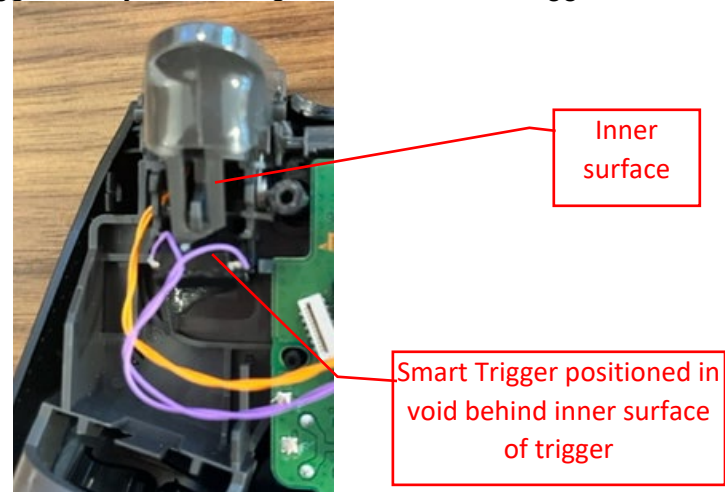
	 <p>Depressible trigger</p> <p>Spring</p>
the depressible trigger having an outer surface configured for engagement during operation and extending outside the outer case, and an inner surface opposite the outer surface; and	<p>The trigger includes an outer surface configured to engagement during operation and extending outside of the outer case.</p>  <p>Depressible trigger</p> <p>Outer surface for engagement outside of case</p> <p>Outer case</p> <p>The trigger includes an inner surface opposite the outer surface.</p>

	
<p>A mechanism for adjustment of a range of motion of the at least one depressible trigger,</p>	<p>Triggers include a mechanism that adjusts a range of motion of the trigger. The Smart Trigger modifies the as-manufactured travel path of the trigger to “remove” travel time to actuate the button, i.e., shortens or adjusts the range of motion of the trigger.</p> <div><p>▼ What are Smart Triggers / Bumpers?</p><p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p><p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p></div>

	 <p>Depressible trigger</p> <p>Smart Trigger positioned to manually adjust original trigger motion range</p>
<p>Wherein, the mechanism is configured to be inserted into a void behind the inner surface of the depressible trigger wherein the void is defined by the outer case, and</p>	<p>The Smart Trigger is configured to be inserted into a void behind the inner surface of the trigger where the void is defined by the outer case.</p>  <p>Case</p> <p>Depressible trigger</p> <p>Void</p> <p>Inner surface</p> <p>Smart Trigger positioned in void behind inner surface of trigger</p>

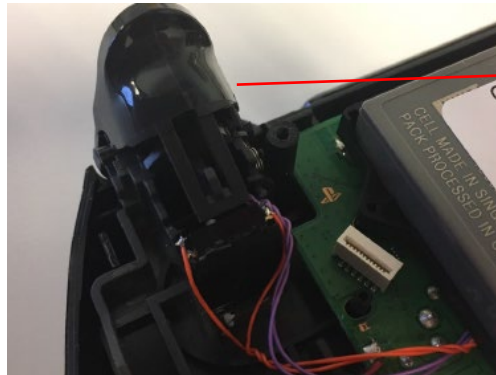
Wherein the mechanism is configured such that when the mechanism is inserted, the inner surface of the depressible trigger contacts the mechanism to adjust the range of motion of the depressible trigger by changing a degree of rotation of the depressible trigger.

The Smart Trigger is configured such that when inserted into the void, the inner surface of the trigger contacts the Smart Trigger to adjust the range of motion of the trigger

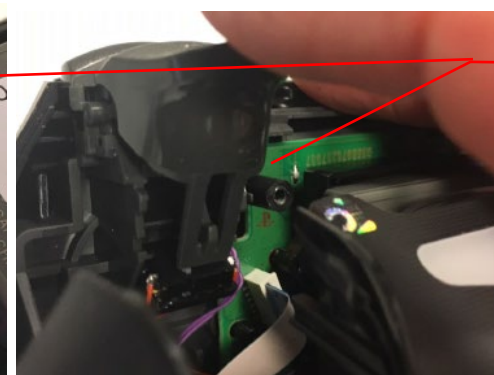


by changing a degree of rotation of the depressible trigger.

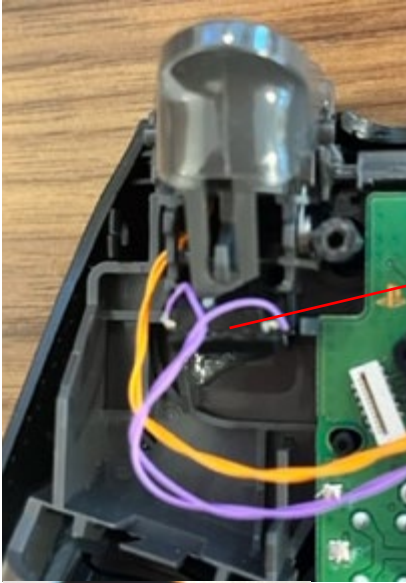
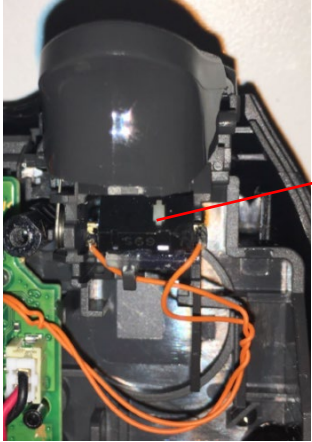
DISENGAGED



ENGAGED



Smart Trigger changes a degree of rotation of the depressible trigger.

Dependent Claims of Claim 1	
<p>2. The apparatus of claim 1, wherein the mechanism for adjustment of the range of motion of the at least one depressible trigger is manually adjustable by a user to adjust the range of motion of the at least one depressible trigger from a first range of motion to a second range of motion.</p>	<p>The PS4 Battle Beaver places the switch within the pathway of the trigger to change the motion of the trigger from a first range to a second range. Further, the Battle Beaver product is modified to remove the trigger actuation protrusion to allow additional variability in the motion path.</p> <div>A close-up photograph of the internal trigger mechanism of a PS4 controller. A grey plastic trigger housing is visible at the top. Below it, a purple and yellow wire is connected to a small switch mechanism. A red line points from a text box to this switch.</div> <div><p>Smart Trigger positioned to manually adjust original trigger motion range</p></div> <div>A close-up photograph of the internal trigger mechanism of a PS4 controller. A black plastic trigger housing is visible at the top. Below it, an orange wire is connected to a switch mechanism. A red line points from a text box to this switch.</div> <div><p>Racer Trigger option with trigger protrusion removed</p></div>

Options for trigger modifications include “Smart Trigger” and “Racer Trigger,” where the Racer Trigger allows 50% of the original trigger movement.

<https://battlebeavercustoms.com/tools/builder/63>

Triggers

Left Trigger

No Trigger Adjustments

Racer Triggers

Smart Triggers

Smart Triggers: Permanently and Internally converts linear trigger into a button. Removes the progressive ramp up, and has the shortest and lightest trigger pull available. Works for most games.

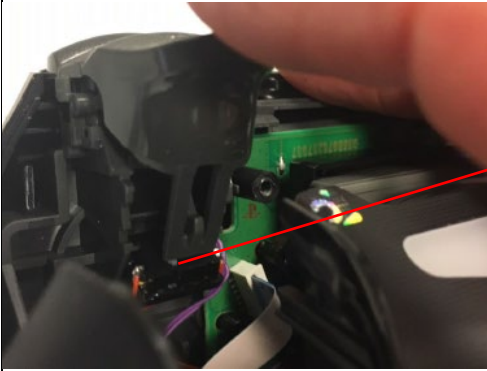
Right Trigger

No Trigger Adjustments

Racer Triggers

Smart Triggers

Racer Triggers: A unique trigger that is a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%

<p>7. The apparatus of claim 1, wherein the adjustment of the range of motion of the at least one depressible trigger comprises adjustment of an ending position of the at least one depressible trigger after depression by a user.</p>	 <div style="border: 1px solid red; padding: 5px; color: red;"> <p>Smart Trigger adjusts an ending position of the at least one depressible trigger after depression by a user.</p> </div>
<p>8. The apparatus of claim 1, wherein the computer program is a game program.</p>	<p>The PS4 controller provides inputs for game programs, such as Halo. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p>
<p>10. The apparatus of claim 1, wherein the apparatus comprises a game controller configured to operate with a computing device.</p>	<p>The PS4 controller provides inputs for game programs, such as Halo. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p>
<p>Dependent Claim of Dependent Claim 10</p>	
<p>11. The apparatus of claim 10, wherein the computing device comprises a video gaming console.</p>	<p>The PS4 controller provides inputs for game programs, such as Halo. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p>
<p>Claim 12 of US 10,596,455</p>	
<p>A trigger stop for use in an apparatus for supplying user inputs to a computer program for controlling the computer program, the trigger stop configured to adjust a range of motion of a depressible trigger,</p>	<p>To the extent the preamble is limiting, the Smart Trigger for the PS4 controller is a trigger stop for use in an apparatus for supplying user inputs for controlling a computer program. The Smart Trigger is configured to adjust a range of motion of a depressible trigger.</p>



Apparatus

For example, the Smart Triggers provide an “input” for computer programs, such as “shooter games” including “Halo.” <https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers>

▼ **What are Smart Triggers / Bumpers?**

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For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!

The Smart Trigger “internally converts the linear trigger into a button. Removes the progressive ramp up, and as the shortest and lightest trigger pull available.” In other words, the Smart Trigger manually adjusts the depressible range (linear travel) of the trigger. <https://battlebeavercustoms.com/tools/builder/63>

Triggers

Left Trigger

No Trigger Adjustments

Racer Triggers

Smart Triggers

Smart Triggers: Permanently and Internally converts linear trigger into a button. Removes the progressive ramp up, and has the shortest and lightest trigger pull available. Works for most games.

Right Trigger

No Trigger Adjustments

Racer Triggers

Smart Triggers

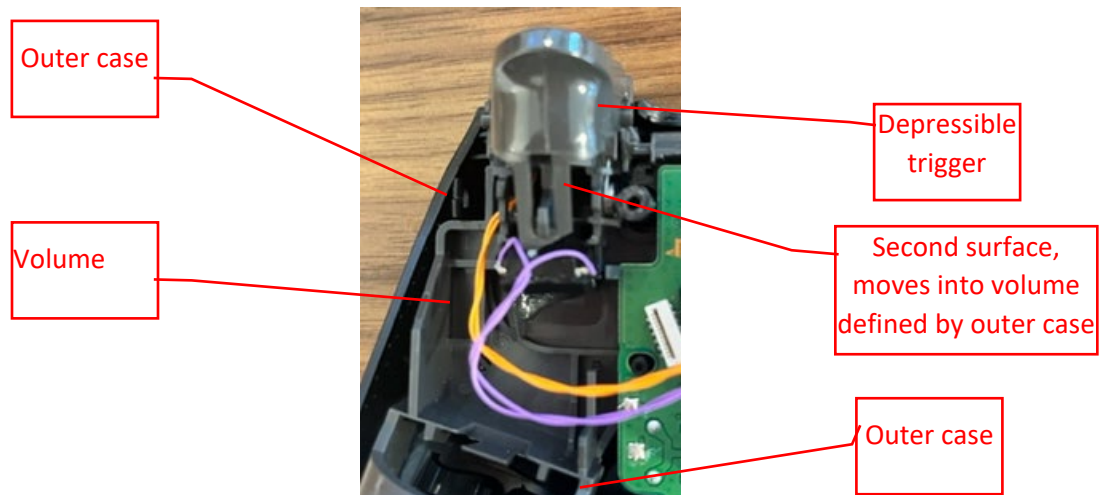
Smart Triggers: Permanently and Internally converts linear trigger into a button. Removes the progressive ramp up, and has the shortest and lightest trigger pull available. Works for most games.

Wherein the depressible trigger comprises a first surface located outside an outer case of the apparatus and a second surface opposite the first surface, the second surface configured to move into a volume defined by the outer case when the trigger is depressed,

The trigger includes a first surface located outside of the case and a second surface configured to move into a volume defined by the outer case when the trigger is depressed.

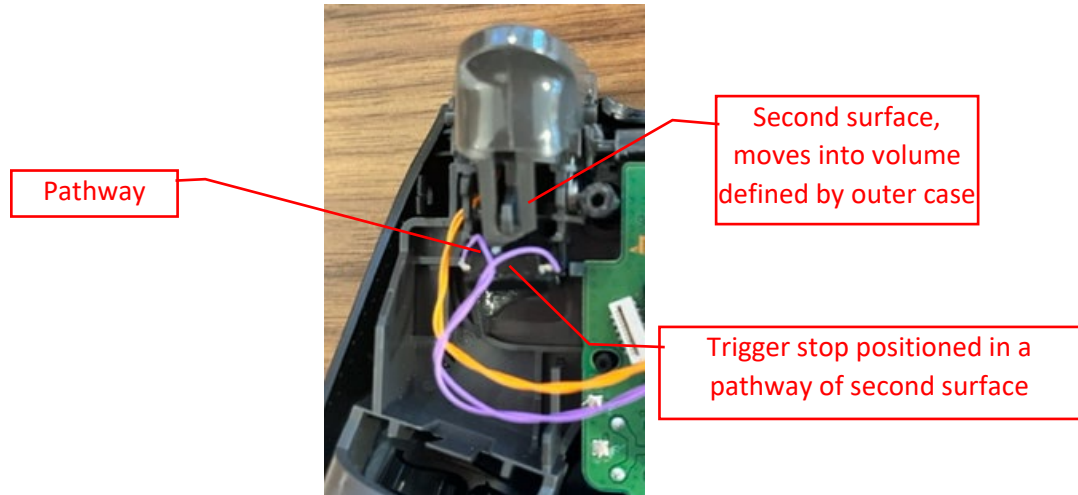


The trigger includes a second surface opposite the first surface, the second surface configured to move into a volume defined by the outer case when the trigger is depressed.



Wherein the trigger stop is disposed within the volume defined by the outer case of the apparatus and in a pathway of the second surface of the depressible trigger and,

The Smart Trigger is disposed within the volume defined by the outer case and within the pathway of the second surface of the trigger.



The Smart Trigger “internally converts the linear trigger into a button. Removes the progressive ramp up, and as the shortest and lightest trigger pull available.” In other words, the Smart Trigger manually adjusts the depressible range (linear travel) of the trigger.

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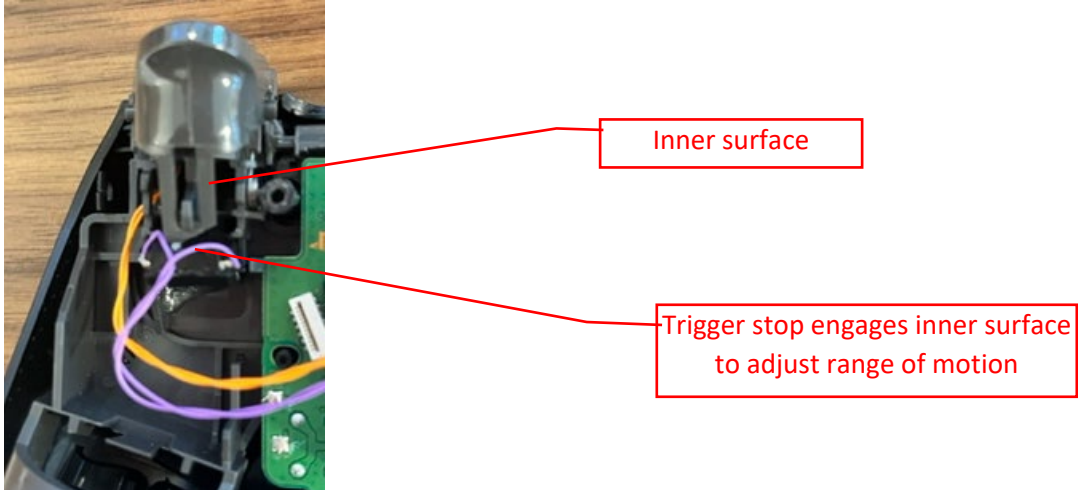
Right Trigger

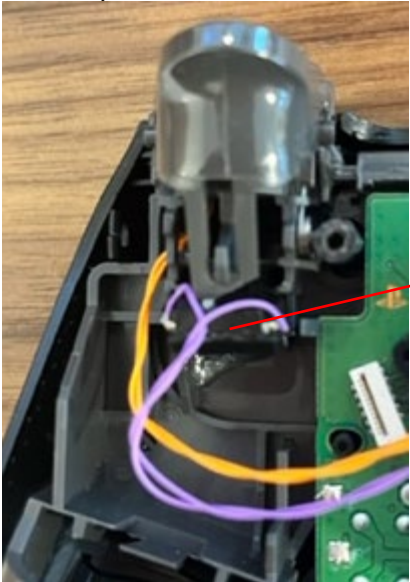
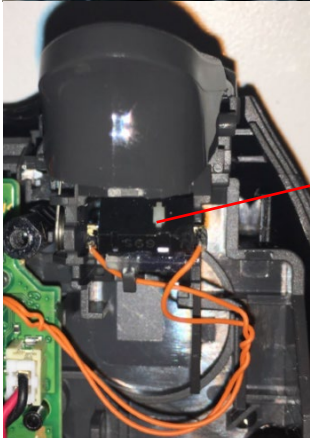
No Trigger Adjustments

Racer Triggers

Smart Triggers

Smart Triggers: Permanently and Internally converts linear trigger into a button. Removes the progressive ramp up, and has the shortest and lightest trigger pull available. Works for most games.

	<p>The Smart Trigger is positioned within a pathway of the trigger to “remove” travel time to actuate the button, i.e., shortens the range of motion by adding a stop within the travel path. The Smart Trigger is positioned within the outer face of the apparatus.</p> <div><p>What are Smart Triggers / Bumpers?</p><p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p><p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p></div>
Wherein the trigger stop is configured to engage the inner surface of the depressible trigger of the apparatus to adjust a range of motion of the depressible trigger.	<p>The Smart Trigger is configured to engage the inner surface of the trigger to adjust a range of motion.</p> 

Dependent Claims of Claim 12	
<p>13. The trigger stop of claim 12, wherein a position of the trigger stop is manually adjustable to define at least a first and second range of motion of the depressible trigger.</p>	<p>The PS4 Battle Beaver places the switch within the pathway of the trigger to change the motion of the trigger from a first range to a second range. Further, the Battle Beaver product is modified to remove the trigger actuation protrusion to allow additional variability in the motion path.</p> <div></div> <div><p>Smart Trigger positioned to manually adjust original trigger motion range</p></div> <div></div> <div><p>Racer Trigger option with trigger protrusion removed</p></div>

Options for trigger modifications include “Smart Trigger” and “Racer Trigger,” where the Racer Trigger allows 50% of the original trigger movement.

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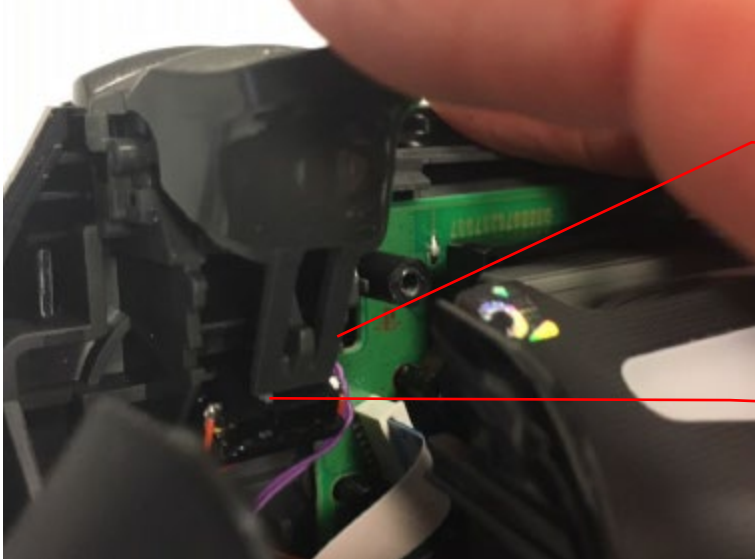
Right Trigger


No Trigger Adjustments



Racer Triggers

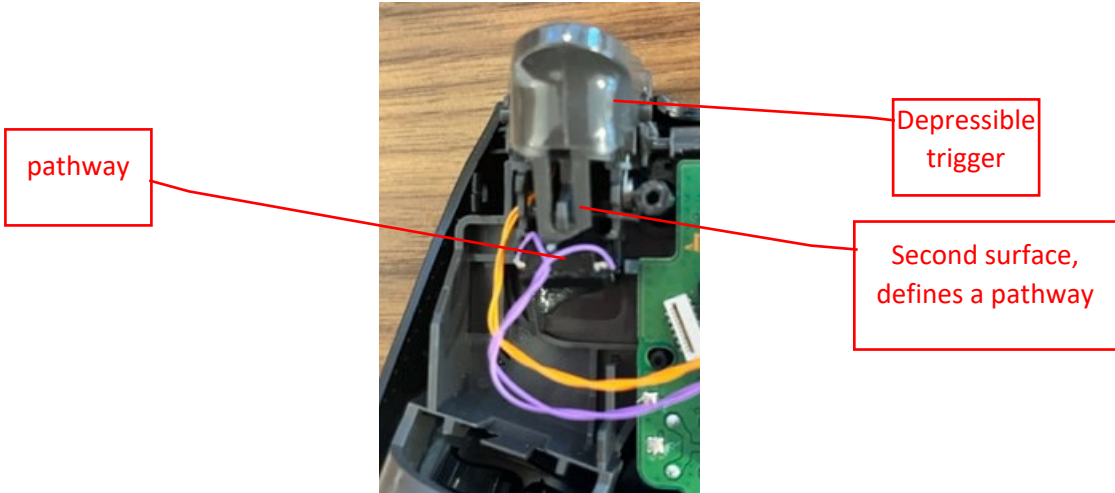
Smart Triggers

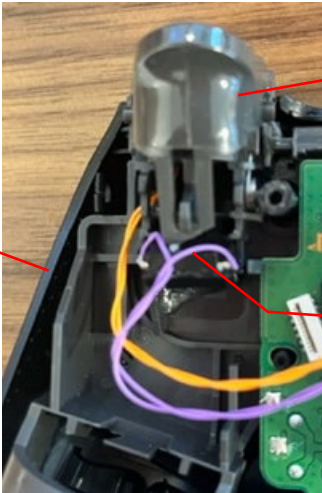
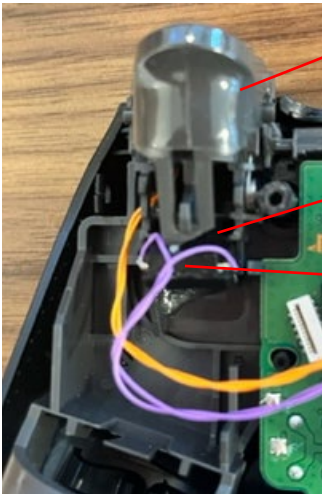
Racer Triggers: A unique trigger that is a hybrid between Stock and Smart triggers. The trigger will move freely from 0-50% then click a smart trigger switch to instantly go from 50-100%

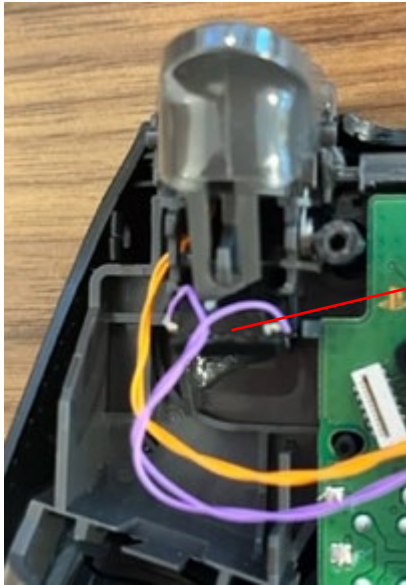
<p>14. The trigger stop of claim 12, wherein the trigger stop defines an ending point for the range of motion of the depressible trigger.</p>	<p>The Smart Trigger acts as an ending point for the range of motion of the trigger.</p>  <p>Trigger abuts against Smart Trigger</p> <p>Trigger stop defines ending point for range of motion</p>
<p>15. The trigger stop of claim 12, wherein the computer program is a game program.</p>	<p>The PS4 controller provides inputs for game programs, such as Halo. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p>
<p>16. The trigger stop of claim 12, wherein the apparatus comprises a game controller configured to operate with a computing device.</p>	<p>The PS4 controller provides inputs for game programs, such as Halo. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p>

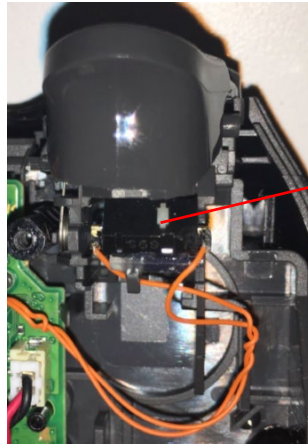
Claim 17 of US 10,596,455	
<p>A game controller for controlling an electronic game, the game controller comprising:</p>	<p>To the extent the preamble is limiting, the Battle Beaver products include this feature. The PS4 controller is a game controller that controls an electronic game</p> <div></div> <p>For example, the Smart Triggers provide an “input” for electronic games, such as “shooter games” including “Halo.” https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p> <div><p>▼ What are Smart Triggers / Bumpers?</p><p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p><p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p></div>

<p>A housing;</p>	<p>The PS4 controller includes a housing</p> 
<p>At least one depressible trigger at least partially disposed within the housing comprising a first surface configured to be engaged by a user to depress the at least one trigger and a second surface opposite the first surface, the second surface defining a pathway when the at least one trigger is depressed;</p>	<p>The trigger is at least partially disposed within the housing and includes a first surface configured to be engaged by a user to depress the at least one trigger.</p>  <p>The trigger includes a second surface opposite the first surface. The second surface defining a pathway when the at least one trigger is depressed.</p>

	
<p>Electrical circuitry contained within the housing, wherein the at least one depressible trigger is in operational association with the electrical circuitry such that depression of the at least one depressible trigger causes electrical outputs of the electrical circuitry to control operation of the electronic game; and</p>	<p>The controller includes electrical circuitry contained within the housing. The trigger is in operational association with the electrical circuitry such that depression of the trigger causes electrical outputs to the electrical circuitry to control operation of the electronic game. The Smart Trigger includes a switch coupled to a PCB (e.g., electrical circuitry), where the switch is controlled by depression of the trigger and generates “inputs” to the PCB, which manipulates an electrical signal or output from the PCB to control the electronic games.</p> <p>For example, the Smart Triggers provide an “input” for electronic games”. https://battlebeavercustoms.com/tools/help-center#what-are-smart-triggers-bumpers</p> <div style="background-color: #2e3436; color: white; padding: 10px;"> <p>▼ What are Smart Triggers / Bumpers?</p> <p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p> <p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p> </div>

	 <p>Depressible trigger</p> <p>Housing</p> <p>Electrical circuitry controlled by depression of trigger that manipulates electrical outputs of the circuitry</p>
<p>A trigger adjustment system disposed within the housing in the pathway of the second surface of the at least depressible trigger and in communication with the at least one depressible trigger, the trigger adjustment system configured to adjust a range of depressible motion of the at least one depressible trigger.</p>	<p>The Smart Trigger is a trigger adjustment system disposed within the housing in the pathway of the trigger and is in communication with the trigger.</p>  <p>Depressible trigger</p> <p>Pathway</p> <p>Smart Trigger positioned in pathway to adjust trigger motion range</p>

	<p>The Smart Trigger modifies the as-manufactured travel path of the trigger to “remove” travel time to actuate the button, i.e., shortens or adjusts the range of motion of the trigger. The Smart Trigger is positioned within the outer case of the apparatus.</p> <div> <p>▼ What are Smart Triggers / Bumpers?</p> <p>Our Smart Triggers and Smart Bumpers are what we believe to be the epitome of performance modifications for shooter games, they remove the travel time necessary for the button to register an input. Instead of having to travel all the way down, all you'll hear is that satisfying 'click' the instant you decide to pull the trigger.</p> <p>For you Halo fans, our Smart Triggers register instantly at 100% so there's no need to worry about charging for that Noob Combo!</p> </div>
<p>Dependent Claims of Claim 17</p>	
<p>18. The game controller of claim 17, wherein the trigger adjustment system is manually adjustable by a user to adjust the depressible range of motion of the at least one depressible trigger from a first range of motion to a second range of motion.</p>	<p>The PS4 Battle Beaver places the switch within the pathway of the trigger to change the motion of the trigger from a first range to a second range. Further, the Battle Beaver product is modified to remove the trigger actuation protrusion to allow additional variability in the motion path.</p> <div>  </div> <div> <p>Smart Trigger positioned to manually adjust original trigger motion range</p> </div>



Racer Trigger option with
trigger protrusion removed

Options for trigger modifications include “Smart Trigger” and “Racer Trigger,” where the Racer Trigger allows 50% of the original trigger movement.

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